

Work Order ID 140817

Tuesday, January 19, 2016 1:06:20 PM

140817

Page 1

Item ID: D212-803-217

Accept

N900040100Setup Start ***NS1***

Revision ID:

Item Name: Left Hand Pilot in Command - Medium/Standard Design, Mechanical 212/412

Stop ***NS2***

Start Date: 1/19/2016 Start Qty: 1.00

1

Cust Item ID:

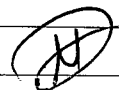
Required Date: 1/21/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan: Date: 1-1-19

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
DSI9728	A								
IIN-D212-803	D								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy blue file and type labels per PPP D212-803-217 CHG001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									

JAN 20 2016

DAS
27
9-89

JAN 20 2016

DAS
6
9-89

JAN 20 2016

DAS
26
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

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140817

Page 2

Item ID: D212-803-217

Accept

N900040100Setup Start ***NS1***

Revision ID:

Item Name: Left Hand Pilot in Command - Medium/Standard Design, Mechanical 212/412

Stop ***NS2***Start Date: 1/19/2016 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 1/21/2016 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00				DAS 27 9-89			
Quality Control									
									JAN 20 2016
130	Packaging	0.00							
130									
Packaging	Memo	0.00				1	DAS 27 9-89		
Packaging	Identify and pack for shipping as per PPP D212-803-217 Location: _____ PPP Rev: _____ SOB								
									JAN 20 2016
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									MCS JAN 20 2016

MCS JAN 20 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐							
Misidentified ☐	Past Due ☐								

Ficklist Print

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Page 1

Work Order ID: 140817

140817

Parent Item: D212-803-217

D212-803-217

Parent Item Name: Left Hand Pilot in Command - Medium/Standard Design, Mechanical 212/412

Start Date: 1/19/2016

Required Date: 1/21/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 15.05.07 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MS171599 *MS171599* Pin		Purchased	No				Each	13.0000		1			
									**			DAS 6 9-89	DAS 26 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				Return2015				1					
				m123183				1					
				ST315				12					
				m129150				12					
D5155-043 *D5155-043* Co-Pilot Collective Head Assembly (212)		Manufactured	No				Each	1.0000		1		DAS 6 9-89	DAS 26 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST374				1					
				134704				1					
D5156-5 *D5156-5* Face Plate		Manufactured	No				Each	6.0000		1		DAS 6 9-89	DAS 26 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST155				6					
				139564				6					
D5156-7 *D5156-7* Face Plate		Manufactured	No				Each	11.0000		1		DAS 6 9-89	DAS 26 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST155				11					
				134708				8					
				137045				3					

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	☐ OTHER :					
Misidentified ☐	☐ Past Due						

Picklist Print

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Work Order ID: 140817

140817

Parent Item: D212-803-217

D212-803-217

Parent Item Name: Left Hand Pilot in Command - Medium/Standard Design, Mechanical 212/412

Start Date: 1/19/2016

Required Date: 1/21/2016

Start Qty: 1.00

Required Qty: 1.00

D5055-3	Manufactured	No	Each	4.0000	1	DAS 6 9-89	DAS 26 9-89
D5055-3							
Placard							
DAS 27 9-89							
	<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>			
	ST176		4				
	139609		4				
D5055-5	Manufactured	No	Each	4.0000	1	DAS 6 9-89	DAS 26 9-89
D5055-5							
Placard							
DAS 27 9-89							
	<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>			
	ST176		4				
	139477		4				
D5055-7	Manufactured	No	Each	4.0000	1	DAS 6 9-89	DAS 26 9-89
D5055-7							
Placard							
DAS 27 9-89							
	<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>			
	ST176		4				
	139620		4				
D5055-9	Manufactured	No	Each	4.0000	1	DAS 6 9-89	DAS 26 9-89
D5055-9							
Placard							
DAS 27 9-89							
	<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>			
	ST146		4				
	139497		4				
D4411-7	Manufactured	No	Each	2.0000	1	DAS 6 9-89	DAS 26 9-89
D4411-7							
Placard							
DAS 27 9-89							
	<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>			
	ST096		2				
	138557		2				

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Shop Packet Print

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

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Work Order ID: 140817

140817

Parent Item: D212-803-217

D212-803-217

Parent Item Name: Left Hand Pilot in Command - Medium/Standard Design, Mechanical 212/412

Start Date: 1/19/2016

Required Date: 1/21/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

Each

948.0000

1

MS21042L3

Nut

Location

Loc Qty

Loc Code

DAS

FP001

163

6

m133790

163

9-89

GA

195

m133790

195

ST304

590

m133790

590

DAS
27
9-89

MS21919WDG10

Purchased

No

Each

24.0000

1

MS21919WDG10

Clamp

Location

Loc Qty

Loc Code

DAS

ST293

24

6

m128401

1

9-89

m128993

23

DAS
27
9-89

MS21919WDG19

Purchased

No

Each

12.0000

1

MS21919WDG19

Clamp

Location

Loc Qty

Loc Code

DAS

ST291

12

6

m126741

1

9-89

m132344

1

m133988

10

DAS
27
9-89

JAN 20 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation		Disposition			
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

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Work Order ID: 140817

140817

Parent Item: D212-803-217

D212-803-217

Parent Item Name: Left Hand Pilot in Command - Medium/Standard Design, Mechanical 212/412

Start Date: 1/19/2016

Required Date: 1/21/2016

Start Qty: 1.00

Required Qty: 1.00

MS24693-24B

Purchased

No

Each

136.0000

4

MS24693-24B

Screw

**

EAS
27
9-89

Location

Loc Qty

Loc Code

GA

136

m132256

72

m133790

64

Each

399.0000

**

MS27039-1-07

Purchased

No

MS27039-1-07

Screw

Location

Loc Qty

Loc Code

GA

334

125654

334

ST281

65

m127813

65

Each

1,022.000

**

EAS
27
9-89

NAS1149D0363J

Purchased

No

NAS1149D0363.J

Washer

Location

Loc Qty

Loc Code

GA

108

m130799

108

ST263

914

m133790

414

m133932

500

EAS
27
9-89

DAS
6
9-89

DAS
6
9-89

DAS
6
9-89

JAN 20 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Misabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D212-803 REV. D AND INSTRUCTIONS
FOR CONTINUED AIRWORTHINESS ICA-D212-803 REV. 3 OR LATER APPROVED REVISION
REF. FAA STC: SR02233SE

1.0 PURPOSE

The purpose of the DSI is to amend the installation of the D4410-041/-043/-045 Co-Pilot Collective Head Assembly and the D5046-041/-043/-045 Co-Pilot Collective Head Assembly on the Collective Stick of the Bell 205/212/412 model aircraft for DXXX-803-0XX at CHG 003 and later and the DXXX-803-1XX at CHG 002 and later.

2.0 PROCEDURE

2.1 To install DXXX-041/-043/-045 Co-Pilot Collective Head Assembly onto Collective Stick Assembly (Bell p/n 205-001-117-1 for 205, Bell p/n 212-001-117-1 for 212/412 and Bell p/n 212-001-171-001 for Eagle Single), position the Head Assembly on the Collective Stick Assembly so that it is angled away from the door and does not contact the pilot's leg. Transfer drill the mounting hole on the Collective Stick Assembly to the desired location on the neck of the DXXX-041/-043/-045 Collective Head.

2.2 To adjust the position of the DXXX-041/-043/-045 Collective Head Assembly, it is acceptable to remove $\frac{1}{2}$ " to $\frac{3}{4}$ " off of the neck as desired.

2.3 Wet the Collective Head Assembly with Proseal 890 or equivalent and mount using Pin (p/n MS171539 on DXXX-041 Collective Head or p/n MS171599 on DXXX-043/-045 Collective Head) per Figure 1. Apply Aircraft Primer to Pin.

3.0 WEIGHT AND BALANCE

Aircraft Weight and Balance are not affected by this change.

A	NEW ISSUE	VS	15.06.24
REV.	DESCRIPTION	BY	DATE
DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	HS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9728	SHEET 1 OF 3
APPROVED	HS	TITLE	SCALE
DE APPR.		LH PIC INSTALLATION	NTS
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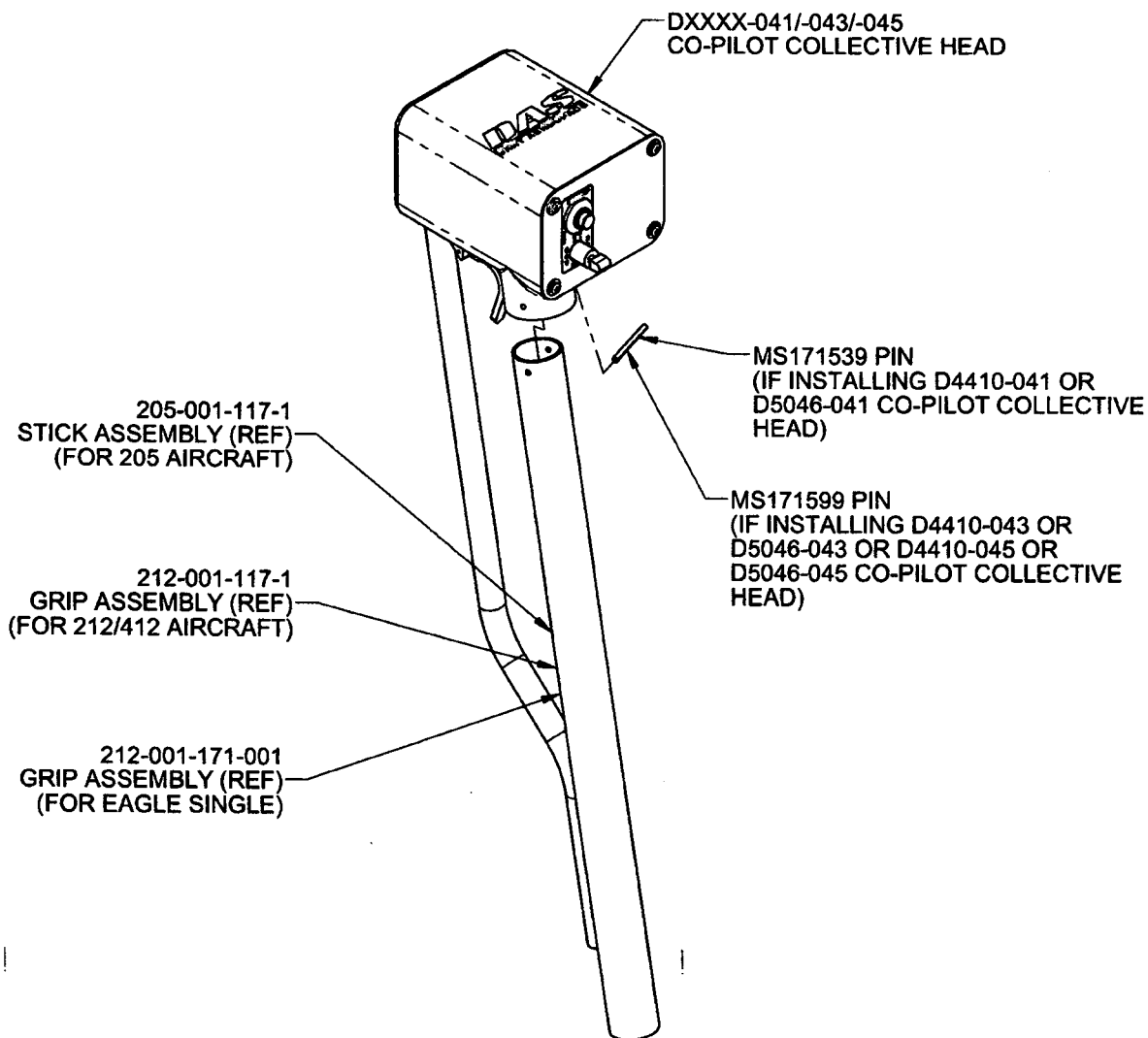


FIGURE 1 - Co-Pilot Collective Head Installation
D4410-041 SHOWN D4410-043/-045 AND D5046-041/-043/-045 SIMILAR)

DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	HS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9728	SHEET 2 OF 3
APPROVED	HS	TITLE	SCALE
DE APPR.		LH PIC INSTALLATION	NTS
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4.0 PARTS LISTS

Amend Parts Lists for the following kits per tables below.

4.1 Large Collective Head Kits

Qty -011	Qty -013	Qty -015	Qty -017	Qty -019	Part Number	Description
X					D205-803-011	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
	X				D205-803-013	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
		X			D212-803-015	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
			X		D212-803-017	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
				X	D212-803-019	LEFT HAND PILOT IN COMMAND, EAGLE SINGLE
1	1				MS171539	PIN
		1	1	1	MS171599	PIN

4.2 Small Collective Head Kits

Qty -111	Qty -113	Qty -115	Qty -117	Qty -119	Part Number	Description
X					D205-803-111	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
	X				D205-803-113	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
		X			D212-803-115	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
			X		D212-803-117	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
				X	D212-803-119	LEFT HAND PILOT IN COMMAND, EAGLE SINGLE
1	1				MS171539	PIN
		1	1	1	MS171599	PIN

4.3 Medium Collective Head Kits

Qty -211	Qty -213	Qty -215	Qty -217	Qty -219	Part Number	Description
X					D205-802-211	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
	X				D205-803-213	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
		X			D212-803-215	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
			X		D212-803-217	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
				X	D212-803-219	LEFT HAND PILOT IN COMMAND, EAGLE SINGLE
1	1				MS171539	PIN
		1	1	1	MS171599	PIN

DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	HS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9728	SHEET 3 OF 3
APPROVED	HS	TITLE	SCALE
DE APPR.		LH PIC INSTALLATION	NTS
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4.0 PARTS LISTS

DAS
27
9-89

Amend Parts Lists for the following kits per tables below.

REVISION

4.1 Large Collective Head Kits

Qty -011	Qty -013	Qty -015	Qty -017	Qty -019	Part Number	Description
X					D205-803-011	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
	X				D205-803-013	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
		X			D212-803-015	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
			X		D212-803-017	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
				X	D212-803-019	LEFT HAND PILOT IN COMMAND, EAGLE SINGLE
1	1				MS171539	PIN
		1	1	1	MS171599	PIN

4.2 Small Collective Head Kits

Qty -111	Qty -113	Qty -115	Qty -117	Qty -119	Part Number	Description
X					D205-803-111	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
	X				D205-803-113	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
		X			D212-803-115	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
			X		D212-803-117	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
				X	D212-803-119	LEFT HAND PILOT IN COMMAND, EAGLE SINGLE
1	1				MS171539	PIN
		1	1	1	MS171599	PIN

4.3 Medium Collective Head Kits

Qty -211	Qty -213	Qty -215	Qty -217	Qty -219	Part Number	Description
X					D205-802-211	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
	X				D205-803-213	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
		X			D212-803-215	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
			X		D212-803-217	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
				X	D212-803-219	LEFT HAND PILOT IN COMMAND, EAGLE SINGLE
1	1				MS171539	PIN
		1	1	1	MS171599	PIN

DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	HS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9728	SHEET 3 OF 3
APPROVED	HS	TITLE	SCALE
DE APPR.		LH PIC INSTALLATION	NTS
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7. PARTS LIST - MEDIUM COLLECTIVE HEAD KITS

Qty -211	Qty -213	Qty -215	Qty -217	Qty -219	Qty -221	Qty -223	Part Number	Description
X							D205-803-211	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
	X						D205-803-213	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
		X					D212-803-215	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
			X				D212-803-217	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
				X			D212-803-219	LEFT HAND PILOT IN COMMAND, EAGLE SINGLE
					X		D205-803-221	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
						X	D205-803-223	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
1	1						D5155-041	CO-PILOT COLLECTIVE HEAD ASSEMBLY (205)
		1	1				D5155-043	CO-PILOT COLLECTIVE HEAD ASSEMBLY (212)
				1			D5155-045	CO-PILOT COLLECTIVE HEAD ASSEMBLY (EAGLE SINGLE)
					1	1	D5155-047	CO-PILOT COLLECTIVE HEAD ASSEMBLY (205 WITH THE 204-001-290-5 STICK AND THROTTLE ASSY INSTALLED)
1	1			1	1	1	D5156-1	FACE PLATE
1	1			1	1	1	D5156-3	FACE PLATE
		1	1				D5156-5	FACE PLATE
		1	1				D5156-7	FACE PLATE
1	1			1	1	1	D4410-9	TRIGGER
1	1			1	1	1	D5055-1	PLACARD
1	1	1	1	1	1	1	D5055-3	PLACARD
		1	1				D5055-5	PLACARD
		1	1				D5055-7	PLACARD
		1	1				D5055-9	PLACARD
1	1	1	1	1			D4411-7	PLACARD
		1					27E51-T	SWITCH (ALT P/N 212-075-153-3)
1					1		2PB744-T2	SWITCH
		3					30-037-26	DIODE ASSEMBLY
		2					30-037-3	DIODE ASSEMBLY
1	1			1	1	1	AN565F8H9	SETSCREW
		3					AN961-6T	WASHER
		1					51MXY-5-J	SWITCH
1					1		C100E2-39	SWITCH
17		AR (21)			17		M39029/31-240	PIN
17		AR (21)			17		M39029/32-259	SOCKET
		AR (2)					M39029/31-228	PIN
		AR (2)					M39029/32-247	SOCKET
1	1			1	1	1	MS20253-1-065	PIN
		3					MS21042L06	NUT
1	1	1		1	1	1	MS21042L08	NUT
1	1	1	1	1	1	1	MS21042L3	NUT
		2					MS21044N04	NUT
1	1	1	1	1			MS21919WDG10	CLAMP
		1	1	1			MS21919WDG19	CLAMP
1	1	1					MS21919WDG20	CLAMP
		1					MS24523-27	SWITCH
		2					MS24693-S7	SCREW
4	4	4	4	4	4	4	MS24693-24B	SCREW
1	1	1	1	1	1	1	MS27039-1-07	SCREW
		1					MS27212-1-3	TERMINAL BOARD
1					1		MS3126E14-19P	PLUG
1					1		MS3120E14-19S	SOCKET
		2					MS3126E16-99P	PLUG
		1					MS3120E16-99S	SOCKET
		3					MS3373-A1	STRIP
2	2	2	2	2			NAS1149D0363J	WASHER
					2	2	MS24665-289	COTTER PIN
1	1	1	1	1	1	1	D212-803	KIT PAPERWORK

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Revision: D

Date: 14.09.18